

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 03-249622

(43) Date of publication of application : 07.11.1991

(51)Int.Cl. G02F 1/133
G02F 1/1335
G03B 21/14

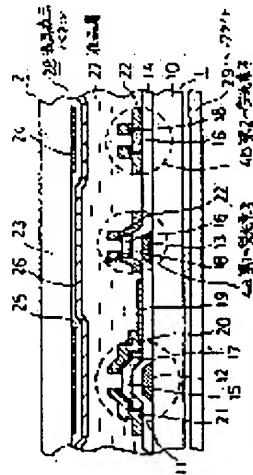
(21)Application number : 02-045958 (71)Applicant : TOSHIBA CORP
(22)Date of filing : 28.02.1990 (72)Inventor : TOMII HITOSHI
KOBAYASHI MICHIIYA

(54) LIQUID CRYSTAL DISPLAY DEVICE

(57) Abstract:

PURPOSE: To make a display screen legible without regard to light or darkness of surroundings and variation in the quantity of light of a back light itself by detecting the brightness of the atmosphere and the brightness of the back light through photodetecting elements, and adjusting the quantity of back light lighting according to the balance between the detected quantity of ambient light and the detected quantity of back light lighting.

CONSTITUTION: This device is equipped with a circuit which detects the quantities of light incident on the photodetecting elements 4a and 4b and a circuit which adjusts the quantity of output light of the back light 29 according to the quantities of light incident on the photodetecting elements 4a and 4b. Then the ambient brightness is detected through the photodetecting element 4a and the quantity of back light lighting is adjusted automatically according to the detected quantity of ambient light; and the quantity of light of the back light itself is detected by the photodetecting element 4b and fed back for the light quantity control over the back light 29. Consequently, the contrast ratio goes to hard to vary and the display screen is made legible without regard to variation in the brightness of the ambient light and variation in the quantity of light of the back light 29 itself.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office